USSN 10/538,038 Response to Office Action dated April 16, 2009 Atty. Docket: 102790-135

ANNEX

From Brockhoff et al <u>J Agric Food Chem. 2007 Jul 25;55(15)</u>:6236-43. Epub 2007 Jun

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from Dotson CD et al. PLoS One. 2008;3(12):e3974. Epub 2008 Dec 18. Plos one
Plasmids containing TAS2R9 cDNAs were transiently transfected into HEK293 cells stably expressing the chimeric G protein subunit G(_{Ingunt4} [59] using TransIT-293 (Mirus Corporation), according to the manufacturer's protocol. Cells were plated into 384- well plates and after 24-30 hr loaded for 1 h with the calcium-sensitive dye Fluo4-AM and stimulated with bitter compounds. Calcium signals were recorded simultaneously from each well after excitation at 488 nm. The obtained signals (F) were normalized to the fluorescence of cells before stimulation (Fo) and expressed as ΔF/F value; ΔF/F = (F-Fo) / Fo. Responses of four wells containing cells expressing the same receptor and receiving the same stimulus were averaged. Calculations were based on at

least three independent transfection experiments.

fromm Pronin et al. Curr Biol. 2007 Aug 21;17(16):1403-8.

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Plasmids containing hT2R cDNAs were transiently transfected into HEK293 cells stably expressing the chimeric G protein subunit Ga16 gust44 [S13] with TransIT-293 (Mirus), according to the manufacturer's protocol. Cells were plated into 384-well plates and after 24–30 hr were loaded for 1 hr with the calcium-sensitive dye Fluo-4, AM and stimulated with bitter compounds. We recorded calcium signals simultaneously from each well after excitation at 488 nm. The obtained signals (F) were normalized to the fluorescence of cells before stimulation (Fo) and expressed as a $\Delta F/F$ value: $\Delta F/F = (F-Fo)/Fo$. We averaged responses of four wells containing cells expressing the same receptor and receiving the same stimulus. Our calculations were based on at least three independent transfection experiments. Concentration-response curves and EC50 values were calculated in GraphPad Prism by nonlinear regression.

from Sakurai et al. J Agric Food Chem. 2009 Mar 25;57(6):2508-14.

Figure 1. Response of IN ASCR16 to sallot in the presence of peptides, amino acids, or amino acid saits. (A) Representative estimateric images of time 1 closed her (ESSST cells consequence) princes for a find of periodes, amino acids, or amino acid saits. The lop and bottom columns show the representative cell images obtained before and after ligand application, respectively. The color scale indicates the FS4GFS00 ratio as a pseudocolor, (B) Responses of the HEXCSST cells consequence of a Carteria of Carteria and Carteria and Carteria and Said in the scale color scale indicates the FS4GFS00 ratio as a pseudocolor, (B) Responses of the HEXCSST cells consequence for the Carteria and Carteria and Carteria and Carteria and Said in the scale color scale presentative cells in randomly selected DSRedpossitive cells (mean ± EE from at least 3 independent measurements). The significance of the differences between the control it and station and test values are released by semi-one-way. MOVEA followed by the Dumont test.